

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1435	(magnetic adj tunnel adj junction "MTJ" "MRAM" (magnetoresistive magneto adj resistive) near3 memory) with (free pinned) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 13:35
L2	894	L1 and barrier with (free pinned) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:10
L3	75	L2 and (mask\$3 hardmask\$3) same barrier with (free pinned) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 13:35
L4	3	3 and (free) near3 (layer film) with (inacti\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 13:37
L5	5	2 and free with inact\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 13:58
L6	580	2 and free with resist\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 13:58
L7	1022	1 and (barrier nonmagnetic insulator) with (free pinned) near3 (layer film)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:15
L8	10	7 and (free ) near3 (layer film) with convers\$4	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:11
L9	82	1 and (barrier nonmagnetic insulator) with (free pinned) near3 (layer film) same (mask\$3 hardmask\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:29
L10	1	10/709999	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:23
L11	318	1 and (barrier nonmagnetic insulator) with (free pinned) near3 (layer film) and (mask\$3 hardmask\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:30

## EAST Search History

L12	281	11 and (free ) near3 (layer film) and (mask\$3 hardmask\$3 hard nwaee3 mask\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:32
L13	281	11 and (free ) near3 (layer film) and (mask\$3 hardmask\$3 hard near3 mask\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 14:32
L14	38	13 and (free mask\$3 hardmask\$3 hard near3 mask\$3) with (oxidation oxidizing oxioxidization oxidized)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/04/17 15:38